

AMENDMENTS TO THE SPECIFICATION:

At page 9, please delete the paragraph beginning on line 18 and replace with the following:

A1
The free list queue ~~312~~ 310 is preferably defined by a singly-linked structure and by a register which contains a pointer which points to the command node at the head of the free list queue ~~312~~ 310. At initialization of the queue processor 300 the pointers in the registers which point to the heads and tails of insert queue 312, sorted queue 314, ready queue 316, and active queue 318 are all set to null. At initialization of the queue processor 300 the register which points to the head of free list queue 310 is set to point to the first available command node after initialization.

At page 11, please delete the paragraph beginning on line 29 and replace with the following:

A2
In the case where the ready queue 316 is empty and the sorted queue 314 is bypassed, extracting a command node 320 from the insert queue 312 and inserting that command node 320 into the ready queue 316 preferably occurs as follows. The pointers in previous link field 368 and the next link field 370 of the command node 366 at the head of the insert queue 312 are set to null. The pointer in the previous link field 372 of the command node 374 in the insert queue 312 is also set to null. Additionally, the pointer in the register which points to the command node at the head of insert queue 312 is set to point to the next command node 374, in insert queue 312, and the pointers in the registers which points to the head and tail of ready queue 316 are set to point to the command node 366 at the head of the insert queue 312. In this way, the command node 366 at the head of the insert queue 312 becomes, or is inserted into, the ready queue, ~~by passing~~ bypassing the sorted queue 314.

At page 15, please delete the paragraph beginning on line 18 and replace with the following:

A3
The active queue 318 is a doubly linked list which preferably includes only two command nodes 328 and 330. The active queue 318 contains the command nodes which are currently being processed by the microprocessor of the disc drive. By including two command nodes 328 and 330, the active queue 318 allows for two command nodes to be processed ~~at-simultaneously~~, such as command nodes which control access to two different, a separately controlled actuators.